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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/052,540	01/23/2002	Richard M. T. Chen	MR2863-41	3245	
4586	7590 08/25/200	3			
	RG, KLEIN & LEE	EXAMINER			
•	OTT CENTER DRIVI CITY, MD 21043	E-SUITE 101	EINSMANN, M	EINSMANN, MARGARET V	
			ART UNIT	PAPER NUMBER	

1751
DATE MAILED: 08/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Exercises of time may be available under the providence of 37 CFR 1.3(s), in no event, however, may a reply be timely filled  Provided from the providence of 37 CFR 1.3(s), in no event, however, may a reply be timely filled  Provided for reply specified above is less than thinty (39) days, a reply within the statistory priority into the providence of the reply support of the providence of the communication, even if thing filled may realize a large sented patient term adjustment. See 37 CFR 1.704(s).  Status  1) Responsive to communication(s) filled on	12 r		ye	~
Examiner   Art Unit   Margaret Einsemann   1751		Application No.	Applicant(s)	
Margaret Einsmann   1751		10/052,540	CHEN ET AL.	
The MALING DATE of this communication appears on th cover sheet with th correspondence address—Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION.  The MALING DATE OF THIS COMMUNICATION.  The main and the provision and 57 CRT 1.35(a). In no event, however, may a reply bet timely filed  **Exhansion of time reply a septidise down the the provision of 37 CRT 1.35(a). In no event, however, may a reply be timely filed  **It the princid for reply appelled allows in lists than thirty (30) days, a list of the princid for reply appelled and the princid for reply with the set date of the communication of the princid for reply appelled and the princid for reply application.  **Final Princid for reply appelled and the princid for reply with the set ability and will reply filed, may reduce they?  **Final Princid for reply application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  **Status**  **Application application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  **Disposition of Claims**  4) Claim(s) 1-13 is/are rejected.  **Claim(s) 1-13 is/are rejected.  **Claim(s) 1-13 is/are allowed.  **	Office Action Summary	Examiner	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.135(s), his no event, however, may a raphy be timely filled.  - Extensions of time may be available under the provisions of 37 CFR 1.135(s), his no event, however, may a raphy be timely filled.  - Extensions of time may be available under the provisions of 37 CFR 1.135(s), his no event, however, may a raphy be timely filled.  - If NO period for reply is specified above, he maximum statistory period will apply and will expire SIX (b) MoNTHS from the mailing date of this communication.  - Palline to reply available date on the time terms and statistory period will apply and will expire SIX (b) MoNTHS from the mailing date of this communication.  - Palline to reply will be Circle time than these members and the mailine date of this communication, even if timely filled, may reduce any search palline to the supplication of the mailine date of this communication, even if timely filled, may reduce any search palline to the supplication of all owners of the mailine date of this communication, even if timely filled, may reduce any search palline to the mailine date of this communication, even if timely filled, may reduce any search palline to the mailine date of this communication.  - Status  - Application is FINAL.  - 20   This action is riPNAL.  - 20   This action is not require the mailine date of the communication.  - 21   Star explication of the mailine date of the communication.  - 21   Star explication of Claims  - 22   Claim(s)				
THE MAILING DATE OF THIS COMMUNICATION.  Elatenized from may be waited used the provision of 3°CFR 1.13(e), In no event, however, may a nepty be timely filed after SIX (5) MCNTHS from the mailing date of this communication.  Failure to reply superfile to the provision of the provision of 13°CFR 1.13(e), In no event, however, may a nepty be timely filed after SIX (5) MCNTHS from the mailing date of this communication.  Failure to reply whithis the safe or extended pariod for reply will, by attaints, graves the application to become ABANDONED (55 U.S. 2, 133).  Any reply received by the Office lated the three more interest and the the maining date of this communication, even if firely filed, may reduce any semble patent term eliptimism. See 3°CFR 1.70(b).  Status  1) Responsive to communication(s) filed on	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address	
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5   Claim(s) is/are allowed.  6   Claim(s) 1-13 is/are rejected.  7   Claim(s) is/are objected to.  8   Claim(s) are subject to restriction and/or election requirement.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11   The proposed drawing correction filed on  is: a)  accepted or b  objected b  disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12   The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1   Certified copies of the priority documents have been received in Application No.  application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15   Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute,  - Any reply received by the Office later than three months after the mailing	66(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).	
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2) Description (PTO-152) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Attachment(s)			
	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal		

U.S. Patent and Trademark Office PTOL-326 (Rev. 04-01)

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Paskalov et al., US 5,344,462.

Paskalov discloses a system of enhancing the hydrophilic surface properties of materials including those made of natural and synthetic fibers by treating with a low temperature plasma of an inorganic gas at a pressure of 0.01-10 Torr. See col 1 lines 59-66. The gases include argon, nitrogen and ammonia as claimed in claim 6 are listed in col 2 line 1. The process is described by referring to the apparatus illustrated in Figure 1. Note the description in col 3 lines 37-62. Material is placed in an enclosed chamber as claimed. Gas is supplied from a gas supplying device as claimed; a high power acts to ionize the gas to produce plasma gas. The time of treatment is 1 to 300 seconds which includes the time claimed in instant claim 8. As a result of said treatment, fabrics better absorb water and other liquids, which is what applicant refers to as generating high hydrophilicity. Col 3 lines 63-64.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paskalov et al, US 5,344,462.

Paskalov et al. is relied upon as set forth in the above rejection as disclosing a system of enhancing the hydrophilic surface properties of materials including those made of natural and synthetic fibers by treating with a low temperature plasma of an inorganic gas at a pressure of 0.01-10 Torr. Regarding claim 4, they do not disclose the use of the system for mixed fibers, yet they describe the process as being applicable to natural and synthetic fibers, making the use on mixed fibrous material an obvious variant. Regarding the limitations of claims 9-13, there is no disclosure of the specific properties defined in those claims since patentee use different measurements to determine hydrophilicity than does patentee. It would have been obvious to the man having skill in the art at the time the invention was made that the surface properties of the fabrics treated by the system of Paskalov et al. are the same or at least equivalent to the properties claimed because the process is the same as claimed, and Paskalov states at col 1 last paragraph that the hydrophilic properties are enhanced. Additionally, the tables show enhanced wetting angle of polyolefins tested, improved capillary absorption, and effect on fluid time. All of these parameters are related to the improvement of hydrophilicity.

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Note the reference to USSR patent 1030445 which treats textile materials including polyester with glow discharge plasma at 0.02-0.04 Torr for 60-90 seconds to achieve enhanced hydrophilic properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Margaret Einsmann whose telephone number is 703-308-3826. The examiner can normally be reached on 7:00 AM -4:30 PM M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 703-308-4708. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Margaret Einsmann Primary Examiner Page 4

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August 20, 2003